

REMARKS

Reconsideration of the present application is respectfully requested.

Claim 1 has been amended to more clearly define over the applied prior art.

Original dependent claim 5 (indicated as directed to allowable subject matter, but rejected as indefinite) has been replaced by new dependent claim 8 which corrects the indefiniteness. Two new independent claims 13 and 16 have been added, of which claim 16 combines original claim 1 and new dependent claim 8 (and thus should be allowable for the same reasons as original claim 5).

The present invention relates to a tire having a carcass-type reinforcement structure anchored on each side of the tire. In an embodiment disclosed in connection with Figs. 1-3, the reinforcement structure 10 includes a main reinforcement structure 10' and a separate secondary reinforcement structure 11. The main reinforcement structure 10' is anchored in a main anchoring zone at the tire bead 1, whereas the secondary reinforcement structure 11 is anchored in a secondary anchoring zone at the rim protector 70. In the secondary anchoring zone the anchoring is achieved by two cord batches disposed on respective sides of the secondary reinforcement structure 11. Each cord batch comprises radially spaced, circumferentially cord portions 31. Each cord batch could be formed by a single cord that is wound in spiral fashion around the tire axis, wherein the radially spaced cord portions 31 thereof are formed by respective turns of the spiral. Alternatively, each cord batch could be formed by separate concentric rings, each ring formed by a circular cord and defining the radially spaced cord portions (see page 9, last paragraph of the description).

The cord batches are embedded in a rubber anchoring mix 60 so that the radially spaced cord portions (e.g., the turns or the rings) are spaced from each other and from the secondary reinforcement structure by the mix as shown in the figures.

The main reinforcement structure 10' could be anchored in the bead 1 in the same way as the secondary reinforcement structure (e.g., see Figs. 1 and 3 depicting batches of radially spaced circumferentially extending cord portions 21 disposed on respective sides of the main reinforcement structure).

The secondary reinforcement structure 11 terminates at a location spaced from the main anchoring zone. Thus, the secondary reinforcement structure does not occupy any of the volume of the bead area so that more volume at the bead area is available for housing other tire components (see page 1, lines 1-3; and page 3, lines 3-7 of the original specification).

In a second embodiment of the invention, disclosed on page 11, first paragraph of the original disclosure, and depicted in new Fig. 4, the main and secondary reinforcement structures, instead of being formed by separate reinforcement parts, are formed from a single reinforcement part, i.e., wherein the main and secondary reinforcement structures 10a, 11a are integral and disposed in circumferentially alternating fashion. That feature was recited in original claim 5, and now in claims 8 and 16.

Claim 1 has been amended to recite that the secondary anchoring zone comprises a cord batch which includes radially spaced, circumferentially extending cord portions. Also recited in claim 1 is that the secondary reinforcement structure terminates at a location spaced from the main anchoring zone. In contrast, Yoshida et al. discloses that the secondary reinforcement structure 10 extends all the way into the main anchoring zone and wraps around the bead cable 15, thereby

occupying some of the volume of the bead area (see column 5, lines 4-6 of Yoshida et al.). As explained earlier herein, such an occupation of the volume of the bead area is avoided by the present invention to provide a greater volume at the bead area for housing other tire components.

Accordingly, it is submitted that claim 1 distinguishes patentably over Yoshida et al.

New independent claim 13 recites, *inter alia*, that the cord batch is embedded in the rubber anchoring mix such that the cord portions (e.g., turns or rings) of the cord batch are spaced by the anchoring mix from one another and from the secondary reinforcing structure. As noted earlier, that is depicted in the figures (see also page 8, lines 10-13 of the original disclosure relating to the cord portions 21 at the main anchoring zone). In contrast, Yoshida et al. discloses a reinforcing core 12 at the secondary anchoring zone. The core 12 comprises steel cords twisted together (column 5, lines 10-12) and is shown as touching the secondary reinforcement structure 10. Thus, the rubber compound 16 does not keep cord portions spaced from each other or from the reinforcement structure 10.

Thus, it is submitted that claim 12 distinguishes patentably over Yoshida et al.

Independent claim 16 is, as noted previously, directed specifically to the embodiment according to new Fig. 4 (as is new dependent claim 8) which was indicated as patentable in the Official Action. Therefore, it is submitted that claim 16 distinguishes patentably over Yoshida et al.

The description has been amended in order to provide antecedent basis for language now used in the claims. Those changes are clearly supported by the original description and figures.

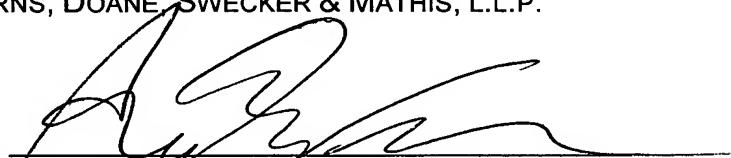
A new Figure 4 has been presented, in order to depict the embodiment disclosed on page 11, first paragraph and claimed specifically in claims 8 and 16.

In accordance with the foregoing, it is submitted that the application is in condition for allowance.

Respectfully submitted,

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Date: September 10, 2004

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AMENDMENTS TO THE DRAWINGS:

The attached replacement drawings include changes to Figs. 1-3, and replace the original sheets, inclusive of Figs. 1-3, as originally filed.

In Fig. 1 – numeral “10” is changed to --10’--, and reference numerals 10 and 5 have been added.

Fig. 2 – numeral “10” is changed to --10’-- and numeral 10 has been relocated.

Fig. 3 - numeral “10” is changed to --10’-- and numeral 10 has been added.

Approval is requested to insert new Fig. 4.

Attachment: Replacement Sheets Figs. 1-3

New Fig. 4